[RESISTANCE RANDOM ACCESS MEMORY AND METHOD FOR FABRICATING THE SAME]

Abstract

The present invention provides a resistance random access memory structure, comprising a plurality of word lines in a substrate, a plurality of reset lines coupled to the word lines, a dielectric layer on the substrate, a plurality of memory units in the dielectric layer. Each of the memory units includes a bottom electrode, a top electrode and a resistive thin film between the top electrode and the bottom electrode. The top electrodes of the memory units in a same column are coupled to one of the reset lines and a plurality of the bit lines on the memory units. The bottom electrodes of the memory units in a same row are coupled to one of the bit lines.

Because the present invention provides reset lines for Type 1R1D RRAM, it can overcome the non–erasable of the conventional Type 1R1D RRAM.